

Amendments to the Claims

Please amend Claim 1 to read as follows.

1. (Currently Amended) A liquid discharge head comprising:

a plurality of outlets for discharging liquid;

a plurality of liquid channels, each liquid channel communicating with a corresponding outlet;

an inlet for supplying liquid to the liquid channels, the inlet being provided on a substrate;

and

a plurality of recording elements disposed in the corresponding liquid channel opposite to the plurality of outlets, each recording element including a heating resistor provided on the substrate, wherein

the outlets include first outlets disposed relatively closer to the inlet and second outlets disposed relatively further from the inlet and are arranged in a staggered pattern in which the first outlets and the second outlets are disposed alternately on at least one side of the inlet,

the recording elements include first recording elements corresponding to the first outlets and second recording elements corresponding to the second outlets, and

an aspect ratio based on the flow direction of the liquid channels of the first recording elements is greater than the aspect ratio of the second recording elements, with the aspect ratio being defined as a ratio of a longer dimension to a shorter dimension of each of the first and second recording elements.

2. (Original) The liquid discharge head according to Claim 1, wherein each droplet discharged from the first outlets and each droplet discharged from the second outlets have substantially the same volume, and

the value obtained by dividing the area of one of the second recording elements by the area of one of the first recording elements is smaller than 0.95 and greater than 0.60 and the value obtained by dividing the aspect ratio one of the second recording elements by the aspect ratio of one of the first recording elements is smaller than 0.95.

3. (Original) The liquid discharge head according to Claim 1, wherein the volume of each droplet discharged from the second outlets is smaller than the volume of each droplet discharged from the first outlets.

4. (Original) The liquid discharge head according to Claim 3, wherein the volume of each droplet discharged from the second outlets is 0.4 to 1.0 picoliters.

5. (Original) The liquid discharge head according to Claim 1, wherein the liquid channels include first liquid channels where the first recording elements are disposed and second liquid channels where the second recording elements are disposed, and the width of sections of the second channels interposed between adjacent first recording elements is substantially the same as the width of the first recording elements or narrower than the width of the first recording elements.

6. (Previously Presented) The liquid discharge head according to Claim 1, further comprising:

a first outlet group including the first outlets; and

a second outlet group including the second outlets,

wherein the first and second outlet groups are disposed on both sides of the inlet, and

the first outlet group and the second outlet group are offset by one-half pitch with respect to each other.

7. (Previously Presented) The liquid discharge head according to Claim 1, further comprising:

a power supply unit configured to supply driving voltages to the recording elements;

drivers capable of switching a condition of power distribution to the recording elements, the drivers being disposed on the recording elements; and

logic circuits configured to selectively drive the drivers,

wherein the logic circuits include first and second driving time determining signal supplying units configured to output a signal corresponding to the driving time of the recording elements to the drivers, the first driving time determining signal supplying unit being provided for the first recording elements and the second driving time determining signal supplying unit being provided for the second recording elements.

8. (Previously Presented) The liquid discharge head according to Claim 1, further comprising:

first and second power supply units configured to supply driving voltages to the recording elements;

drivers capable of switching a condition of power distribution to the recording elements, the drivers being disposed on the recording elements; and

logic circuits configured to selectively drive the drivers,

wherein the first power supply unit is provided for the first recording elements and the second power supply unit is provided for the second recording elements.